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TECH CENTER 1600/2900



SEQUENCE LISTING

<110> Ebersole, Edward C.  
Hendrickson, Edwin

<120> NUCLEIC ACID FRAGMENTS FOR THE IDENTIFICATION OF DECHLORINATING BACTERIA

<130> BC1002 US NA

<140> US 09/548,998

<141> 2000-04-14

<150> 60/129,511

<151> 1999-04-15

<160> 60

<170> Microsoft Office 97

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<212> DNA

<213> Dehalococcoides ethenogenes

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<212> DNA

<213> Dehalococcoides ethenogenes

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aggcgaaggc ggttttctag gttgtcactg aactgaggc tcgaaagcgt ggggagcgaa 720  
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<212> DNA

<213> Dehalococcoides ethenogenes

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aactgaaggt aataccgcat gtgggtggcc gacataagtt ggttcactaa agccgtaagg 180  
tgcttggtga ggggcttgcg tccgattagc tagttggtgg ggtaacggcc taccaaggct 240  
tcgatcggta gcttggtctg agaggatgat cagccacact gggactgaga cacggcccag 300  
actcctacgg gaggcagcag caaggaatct tgggcaatgg gcgaaagcct gaccagcaa 360  
cgccgcgtga gggatgaagg ctctcgggtt gtaaacctct tttcacaggg aagaataatg 420  
acggtacctg tggaataagc ttcggctaac tacgtgccag cagccgcggt aatacgtagg 480  
aagcaagcgt tatccggatt tattgggcgt aaagtgagcg taggtggtct ttcaagttgg 540  
atgtgaaatt tcccggctta accgggacgt gtcattcaat actgttggaac tagagtacag 600  
caggagaaaa cggaattccc ggtgtagtgg taaaatgcgt agatatcggg aggaacacca 660  
gaggcgaagg cggttttcta ggttgctact gacactgagg ctcgaaagcg tggggagcga 720  
acagaattag atactctggt agtccacgcc ttaaactatg gacactaagt ataggagta 780  
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aagttggagt tgctagtaac cgcatatcag caaggtgcgg tgaatacgtt ctcgggcctt 1320  
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<210> 4

<211> 1377

<212> DNA

<213> Dehalococcoides ethenogenes

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aactgaaggt aataccgcat gtgggtggcc gacatatgtt ggttactaa agccgtaagg 180  
cgcttggtga ggggcttgcg tccgattagc tagttggtgg ggtaatggcc taccaaggct 240  
tcgatcggta gctggtctga gaggatgatc agccacactg ggactgagac acggcccaga 300  
ctcctacggg aggcagcagc aaggaatctt gggcaatggg cgaaagcctg acccagcaac 360  
gccgcgtgag ggatgaaggc ttctgggttg taaacctctt ttcataggga agaataatga 420  
cggtacctgt ggaataagct tcggctaact acgtgccagc agccgcggtg atacgtagga 480  
agcaagcgtt atccgattt attgggcgta aagtgagcgt aggtggtctt tcaagttgga 540  
tgtgaaattt cccggcttaa ccgggacgag tcattcaata ctgttgact agagtacagc 600  
aggagaaaac ggaattcccg gtgtagtggt aaaatgcgta gatatcgga ggaacaccag 660  
aggcgaaggc ggttttctag gttgtcactg aactgaggc tcgaaagcgt ggggagcgaa 720  
cagaattaga tactctgga gtccacgcct taaactatgg aactaggta tagggagtat 780  
cgacctctc tgtgccgaag ctaacgctt aagtgtccc cctggggagt acggtcgaa 840  
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agttggagtt gctagtaacc gcatatcagc atgggtgcgt gaatacgttc tcgggccttg 1320  
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<210> 5

<211> 1377

<212> DNA

<213> Dehalococcoides ethenogenes

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aactgaaggt aataccgcat gtgggtggcc gacatatgtt ggttcactaa agccgtaagg 180  
cgcttggtga ggggcttgcg tccgattagc tagttggtgg ggtaatggcc taccaaggct 240  
tcgatcggta gctggtctga gaggatgatc agccacactg ggactgagac acggcccaga 300  
ctcctacggg aggcagcagc aaggaatctt gggcaatggg cgaaagcctg acccagcaac 360  
gccgcgtgag ggatgaaggc ttctgggttg taaacctctt ttcataggga agaataatga 420  
cggtacctgt ggaataagct tcggctaact acgtgccagc agccgcggta atacgtagga 480  
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<210> 6

<211> 1377

<212> DNA

<213> Dehalococcoides ethenogenes

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aactgaaggt aataccgcat gtggtgggcc gacataagtt ggttcactaa agccgtaagg 180  
tgcttggtga ggggcttgcg tccgattagc tagttggtgg ggtaacggcc taccaaggct 240  
tcgatcggta gctggtctga gaggatgac agccacactg ggactgagac acggcccaga 300  
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agttggagtt gctagtaacc gcatatcagc aaggtgcggt gaatacgttc tcgggccttg 1320  
tacacaccgc ccgtcacgtc atgaaagccg gtaacacttg aagtcgatgt gcccaacc 1377

<210> 7

<211> 1443

<212> DNA

<213> Dehalococcoides ethenogenes

<220>

<221> misc\_feature

<222> (1353)..(1353)

<223> N = A or G or C or T/U, unknown or other (any)

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tgcttggtga ggggcttgcg tccgattagc tagttggtgg ggtaatggtc taccaaggct 240  
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gggccttgta cacaccgccc gtcacgtcat ganagccggt aacacttgaa gtcgatgtgc 1380  
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 gta 1443

<210> 8

<211> 47

<212> DNA

<213> Artificial Sequence

<220>

<223> Consensus sequence derived from DHE-PL, DHE-STF, DHE-DAB, DHE-PIN  
 and DHE-DLL at bases E180-E226.

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<222> (5)..(5)

<223> R = A or G

<220>

<221> misc\_feature

<222> (11)..(11)

<223> Y = C or T

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<222> (18)..(18)

<223> W = A or T

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<222> (21)..(21)

<223> Y = C or T



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<222> (37)..(37)

<223> Y = C or T

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<221> misc\_feature

<222> (42)..(42)

<223> Y = C or T

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47

<210> 9

<211> 20

<212> DNA

<213> Dehalococcoides ethenogenes

<400> 9  
aagtcgaacg gtcttaagca

20

<210> 10

<211> 20

<212> DNA

<213> Dehalococcoides ethenogenes

<400> 10 20  
cgtcattatt cttccctgtg

<210> 11

<211> 21

<212> DNA

<213> Dehalococcoides ethenogenes

<400> 11 21  
gggaaacgac ctgttaagtc a

<210> 12

<211> 22

<212> DNA

<213> Dehalococcoides ethenogenes

<400> 12 22  
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<210> 13

<211> 20

<212> DNA

<213> Dehalococcoides ethenogenes

<400> 13 20  
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<210> 14

<211> 19

<212> DNA

<213> Dehalococcoides ethenogenes

<400> 14 19  
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<210> 15

<211> 18

<212> DNA

<213> Dehalococcoides ethenogenes

<400> 15

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<210> 16

<211> 18

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<210> 17

<211> 21

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<400> 17

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21

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<213> Dehalococcoides ethenogenes

<400> 19

tcagtgacaa cctagaaaac

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<210> 20

<211> 17

<212> DNA

<213> Dehalococcoides ethenogenes

<400> 20

gatgaacgct agcggcg

17

<210> 21

<211> 18

<212> DNA

<213> Dehalococcoides ethenogenes

<400> 21

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<210> 22

<211> 21

<212> DNA

<213> Dehalococcoides ethenogenes

<400> 22

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21

<210> 23

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<212> DNA

<213> Dehalococcoides ethenogenes

<400> 23  
aatggacaga acaatagggtt gc

22

<210> 24

<211> 21

<212> DNA

<213> Dehalococcoides ethenogenes

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21

<210> 25

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<400> 25  
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20

<210> 26

<211> 20

<212> DNA

<213> Dehalococcoides ethenogenes

<400> 26  
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20

<210> 27

<211> 19

<212> DNA

<213> Dehalococcoides ethenogenes

<400> 27 19  
gagtacagca ggagaaaac

<210> 28

<211> 21

<212> DNA

<213> Dehalococcoides ethenogenes

<400> 28 21  
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<210> 29

<211> 19

<212> DNA

<213> Dehalococcoides ethenogenes

<400> 29 19  
ggcagtctcg ctagaaaat

<210> 30

<211> 51

<212> DNA

<213> Artificial Sequence

<220>

<223> Consensus sequence derived from DHE-PL, DHE-STF, DHE-DAB, DHE-PIN  
and DHE-DLL at bases E1001-E1047.

<220>

<221> misc\_feature

<222> (3)..(3)

<223> W = A or T

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<221> misc\_feature

<222> (14)..(14)

<223> M = A or C

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<222> (22)..(22)

<223> R = A or G

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<221> misc\_feature

<222> (44)..(44)

<223> M = A or C

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51

<210> 31

<211> 18

<212> DNA

<213> Dehalococcoides ethenogenes

<400> 31

attttctacg cgagactg

18

<210> 32

<211> 27

<212> DNA

<213> Dehalococcoides ethenogenes

<400> 32

attttctacg cgagactagc gagactg

27

<210> 33

<211> 1542

<212> DNA

<213> Dehalococcoides ethenogenes

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tgtctgggaa actgcctgat ggagggggat aactactgga aacggtagct aataccgcat 180  
aacgtcgcaa gaccaaagag ggggaccttc gggcctcttg ccatcgatg tgcccagatg 240  
ggattagcta gtaggtgggg taacggctca cctaggcgac gatccctagc tggctctgaga 300  
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ggaatattgc acaatgggag caagcctgat gcagccatgc cgcgtgtatg aagaaggcct 420  
tcgggttgta aagtactttc agcggggagg aaggaggtaa agttaatacc tttgctcatt 480  
gacgttacct gcagaagaag caccggctaa ctccgtgcc aagccgcgg taatacggag 540  
ggtgcaagcg ttaatcgga ttactgggag taaagcgac gcaggcggtt tgtaagtca 600  
gatgtgaaat ccccgggctc aacctgggaa ctgcatctga tactggcaag cttgagtctc 660  
gtagaggggg gtagaattcc aggtgtagcg gtgaaatgcg tagagatctg gaggaatacc 720  
ggtggcgaag gcggccccct ggacgaagac tgacgctcag gtgcgaaagc gtggggagca 780  
aacaggatta gataccctgg tagtccacgc cgtaaaccgat gtcgacttgg aggttggtgc 840  
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